

Title (en)
METHODS AND APPARATUS FOR A REMOTE, NONINVASIVE TECHNIQUE TO DETECT CORE BODY TEMPERATURE IN A SUBJECT VIA THERMAL IMAGING

Title (de)
VERFAHREN UND GERÄT FÜR EINE NICHTINVASIVE FERNTECHNIK ZUM NACHWEIS DER KERNKÖRPERTEMPERATUR IN EINEM PROBANDEN DURCH THERMISCHE BILDDARSTELLUNG

Title (fr)
PROCEDES ET APPAREIL POUR UNE TECHNIQUE NON INVASIVE A DISTANCE, PERMETTANT LA DETECTION DE LA TEMPERATURE CENTRALE DU CORPS D'UN SUJET PAR THERMOGRAPHIE

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Application
EP 04785717 A 20040525

Priority
• US 2004016546 W 20040525
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Abstract (en)
[origin: US2004254472A1] An approach to noninvasively, remotely and accurately detect core body temperature in a warm-blooded subject, human or animal, via thermal imaging. Preferred features such as the use of in-frame temperature references, specific anatomical target regions and a physiological heat transfer model help the present invention to overcome pitfalls inherent with existing thermal imaging techniques applied to physiological screening applications. This invention provides the ability to noninvasively, remotely and rapidly screen for diseases or conditions that are characterized by changes in core body temperature. One human application of this invention is the remote screening for severe acute respiratory syndrome (SARS), since fever is a common, early symptom. Other diseases and conditions that affect the core body temperature of humans or animals may also be noninvasively and remotely detected with this invention.

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Cited by
EP4147444A4; PL424706A1; DE102015009088A1; EP3633335A1; CN110974186A; US11450428B2; US11568832B2; US11326956B2; US11625828B2; WO2021188458A1; US10939827B2; DE102015009088B4

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